

## Product Description

SolaTuf® AC1 Impact Modified Acrylic Film offers seven to ten times the impact strength of conventional acrylics. It has good chemical resistance, superb weatherability, UV resistance and transparency that far exceeds polycarbonate film.

## Surface Area

Printing, die cutting, hot stamping, thermoforming, and insert molding are the most common process techniques for this film.

## Application Area

Key applications include laminates, signage, thermoformed parts, and coating applications where weatherability, UV resistance, and chemical resistance are essential.

## Technical Data

### Physical

Specific Gravity	ASTM D-792	g / cm <sup>3</sup>	1,15
Water Absorption 24 Hours	ASTM D-570	%	0,40
Rockwell Hardness	ASTM D-785	M Skala	45

### Optical

Refractive Index @ 25°C	ASTM D-542	N <sub>D</sub>	1,49
Light Transmission	ASTM D-1003	%	90,0
Haze	ASTM D-1003	%	< 4.0

### Mechanical

Tensile Strength, Break	ASTM D-638	MPa	38
Tensile Elongation, Break	ASTM D-638	%	45
Tensile Modulus of Elasticity	ASTM D-638	MPa	1.860
Flexural Strength	ASTM D-790	MPa	70
Flexural Modulus	ASTM D-790	MPa	1.860
Notched Izod Impact @ 23°C	ASTM D-256	J / m an Kerbe	59

### Thermal

Deflection Temperature under Flexural Load @ 1.8 MPa - Annealed	ASTM D-648	°C	79
Coefficient of Thermal Expansion	ASTM D-696	cm / cm / °C	8 x 10 <sup>-5</sup>
Vicat Softening Temperature - Unannealed	ASTM D-1525	°C	98
Glass Transition Temperature, T <sub>g</sub>	ASTM D-3418	°C	103
Maximum Continuous Service Temperature	---	°C	63 - 74

## IMPORTANT NOTICE

All RowTec® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning RowTec® products is based upon research, which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of RowTec® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

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